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Of Serums

For Lancer

Moscow broadcast this week quoted reports that soviet scientists are developing security that retard cancer. The reports cautioned against over-optimism.

Professor Ivan Maisky, dilector of the Soviet Institute of Experimental Biology, in a newspaper article quoted by Moscow Radio said:

By approaching the problem from modern biological positions. Soviet scientists are able to penetrate into the nature of sancer tissues.

withis also offers the possibility of controlling tumor growth and what is perhaps most-important, opens up the prospect or obtaining cancer antigenes.

Similarly to the live vaccines used for the prevention of contagious diseases these infigenes will be able to preyent the development of meteriages (transference from one organ to another) of tumors.

"Another laboratory of the institute headed by Professor Victor Gostev is working on the development of anti-cancer serums and studying their effect on tumor growth in animals.

"It has been proved experimentally that such serums retard the development of cancer cells and tumors as well

1 To parsed ye Lancor Researely Program

🖺 🗊 Fountain's committee numbers if new patent policy wently raise prices of drugs

the outery for further government minumes note drug industry practices. which tollowed issuance of the Federal leaste Commission's antibiotics report isst August gained momentum this damin . . . with the re-entry of the Manne Government Operations Subcommittee into the picture.

For one thing, it became clear that, if the patent policy recently adopted by her thein of Health. Education & Wel-

fare in connection with the cancer chemotherapy program appears likely to hoost consumer prices of possible cancer drugs developed under the setup, subcommittee investigators probably will take a rouk at to.

Inquiries: The tip-off on the subcommittee's renewed interest in drug industry activities was provided by "preliminary inquiries" by the group for information on all of the medical research programs coming under the jurisdiction of fitEW and its research arm, the National Institutes of Health,

Chiefly, what the subcommittee wants to find out is whether "the taxpayer

is getting full value" for public funds spent on U.S. medical research projects.

Headed by Rep L. H. Fountain (D-N.C. she subcommittee's "function is to examine expenditures by government agencies." For this reason, any official inquiry launched by the subcommittee on the basis of evidence turned up by the group's staff would deal with patent policy and drug prices "only indirectly." James Naughton, subcommittee counsel, sold American Dreogist.

Nonetheless, Mr. Naughton declared that is it is found that USPHS expenditures result in higher prices than conminor, otherwise would pay, "we might as I to the wisdom of the government e resimilable

is and Ralicy: With particular refwhen he the famier patent policy, Mi-Naughton reported that the recently area of interest to the subcommittee avescurators. What is involved in this short is the concern as to whether drugs developed under the cancer chemo- ...

therais program are going to be freely available to the taxpavers. fif.W's camer patent policy provides

that a manufacturer who develops an effective drug is a result of research 🎖 carried out under a government contrass may patent and "exploit" Lhull as long as product commercially the drug is produced in ample quantity? nest points needs at reasons b prices (Aug 25 A D).

Polio Cases: Mr. Naughton recalled that the government operations subcommittee previously has been "active in the drug field particularly in connection with the government's poliovaccine procurement program,

It was the subcommittee's prodding in 1956 that led to the Trenton (NJ) grand jury's investigation of the vaccine manufacturers' pricing policies and the indictment that followed be noted

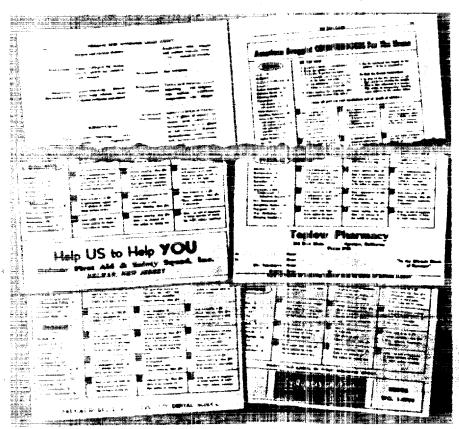
Prices: With reference to drug prices. Mr. Naughton cited the dinterest" that Rep. Chet Holifield (D-Calif) a member of the subcommittee had shown in the pricing structure of the drug hold. In the polic vaccine situation and on other occasions.

Appropriational like new threat to the industry that the House subcommittee's perusal of HEW's medical research programs entails comes at a time when government appropriations for health and medical purposes, including research, are up 13.6% over the 1958 Sigal Year.

Microsver, it is timed to coincide with Sim. Estes Kefauver's antitrust subcommittee bians to stage a full-scale prope of drug beld pricing practices.

Termination of the second control of the sec

Thio State Education Dept Includes Lounterdose Chart In Official Manual



teams: Attendy reproduced several million die MINIBUICAN DEDOCIOT'S Chart it institute reverse for the Home recently with discriminated for the use of every imorgancy

from signal in Ohio as part of an official formation of an annual mention by the same was from signal in Ohio as part of an official formation and an observe in the top.

The version at center left is being distribution of the property of the Relman (N. First Aid & Safety Squad. Reproductive statements by the Teplow Pharmacy, Against the same of the particular by the Teplow Pharmacy, Against the same of the particular of the same of the particular of the same of the particular of the same of t

Fire Tre, chart at right is designed at the the A.D. chart all the A.D. the division of U.S. Steel to her process.

DAPPENED PROPERTY EDDP86R01731R0002000700009 the News 125

In U.S. Cancer Research

WASHINGTON, Aug. 5 (P)—The Welfare Department today revised policies for-patents on products or processes which may be developed by private industry under Government cancer research contracts.

The new policy permits an industry to patent and sell drugs or other chemical agents it develops under government-contract research work.

To protect the public, the ruting also gives the surgeon general authority to license, royalty-free, other manufacturers to produce the agents if he finds this necessary.

ADVISORS

The surgeon general must consider the advice of appropriate consultants and advisory bodies before determining whether it is necessary in the interests of public health to license additional manufacturers

The cancer chemotherapy program to which the new policy applies is jointly sponsored by the National Institutes of Health the American Caseer Society the Damon Runyon Fund, the Atomic Energy Commission, the Veterans Administration and the Food and Drug Administration

EXPANSION

Congress has appropriated #30 million for the cancer shemotherapy program of the National Cancer Institute in the year ending June 30, 1959, fompared with 25 million voted for last fiscal year.

A significant expansion of industry's role is planned, with Government contracts for that phase of research expected to total \$10 million this fiscal year. Last year the total was four million

Next 7 Page(s) In Document Exempt

Funds Sought on Behalf of Concer Drug

CHICAGO, Feb. 24 (UPI)-Angrew C. Ivy last night launched a func-raising campaign on behalf of the controversial cancer drug Erepiozen at a dinner attended by movie actress Gloria Swanson and Sen. Faul Douglas (D-III.).

The University of Illinois Physiologist also warned that if the National Cancer Institute does not act to give the drug a "fair test." supporters of Krebiogen will seek legislation to force a test.

Ty told guests at the testi-

manial dinner in his honor that a the sampt form of organization will be organized to raise at least £350,000 to finance production of more Kneblozen.

he me present rate of usage, all the Krebiozen new available will be used up next summer." Ivy said, "and those patients now dependent on it will be left without it.

Fe said studies of about 1,000 persons treated with the drug have convinced him that Kreblozen "is of value in the treatment of some cancer patients."

With further research and develorment, ivy said, the drug "may turn out to be more effective and

Divide a key to finding the cure of all cancers."

Who is to be responsible if we example extent of Krebiozen's use?" Evy asked. "Certainly not I

"What sort of person would I be if I did not fight to keep this experimental work going on."

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Curtail brebroses
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Oil, Says Dr. Paul Kirk

By JOHN F. ALLEN

%rebiozen. the supposed auti-cancer chemical which has been the source of violent controversy for six years, is simply "a good grade mineral oil and potaing else.

startling testimony was offered here yesterday by Dr. Paul Kirk, noted Univeraitl of California professor of criminolistics, and the man generally credited with sending Kiknaper Burton Abbott to the gas chamber.

Doctor Kirk, whose chemi-Berkeley is rated as the best and most exhaustive in the world, testified under oath before the State Senate interim Committee on Public ilealth, which is gathering carb cancer quacks.

TOTHING BUT LAXATIVE.

After a detailed explanation facturing method. exhaustive chemical and

mows that Kreblozen is withing more than pure Nu - a Taxative. In other respects it is a good grade of mineral oil and absolutely athing else."

the committee heard testimony possible to ex rac! The basic SLAPS AT HOXSEY.

The committee heard testimony chemical from the mineral oil.

Both men took broad slaps at Harry M. Hoxsey, of Dallas, from Dr. Andrew Ivy, of Chi-once they were dissolved.

at Harry M. Hoxsey, of Dallas, oven has caused his near overs. RIDICULOUS, SAYS KIRK.

called the most notorious cam-

Krebiozen was a biologically could do it easily Doctor Bierman told how a active chemical which had However, he said, no matter 14 year of boy had come to

ife accused the American cathartic. Addical Association and other organized medical groups of the Krebiozen he tested in six the box farents some \$400.

Walter E. Batchelder, of San Doctor illerman aid but false and fraudulent reports shout the substance.

Doctor by nor any public cancer commission of the Calie form Medical Association of the Calie form Medical Association.

ther Doctor ly nor any Doctor Batchelder received the Krebiozen direct from Doctor W



injected into horses. The final cancer treatments studies of this material drug, he said is a powder vanced cancer.

While other tests run by the American Medical Association and similar groups have in variably failed to show that Krebiozen has any real anti-cancer effect, Doctor Kirk's was the first reported chemical analysis of the substance. ANOTHER CURE.

Doctor Kirk also reported on an incomplete analysis of another substance which has been largely regarded as the basis of quack cancer treatment: Muchorhicin, advertised as a cure by a Putsburgh, Pa., group and used by some chirepractors in California.

So far, Doctor Kirk said, his analysis has showed the substance contains "lots of yeast, two kinds of bacteria, some sets for a proposed law to Cancer Hearing Testimony trace of some antibiotics." fungi and perhaps a useless

Doctor Kirk's testimony tails of its content or manu-stirred an angry burs in the board of supervisors' chamber wave tests to which he it is a substance derived from mittee is meeting from an posed samples of Krebiozen a cow disease called "lumpy audience made up mostly of This substance is then true believers in unorthodox

made from the blood of the from two other witnesses: Dr. The committee earlier heard injected horses which is then Howard Rierman, scientific didissolved in mineral oil and rector at City of Hope, in given to patients with ad southern California, and Dr. Andrew Small, of Dallas, a Furthermore Doctor by cancer research expert from

eism from accepted scientific bit of ty testimony and backed down on a promised Doctor Kirk arst noted this cer quack of them all, who branded it as "ridiculous," appearance before the com-

proved highly effective in con-how hard he tried to find the City of Hope after undertroiling advanced human can-something in the mineral oil going the Hoxsey treatment be always came up with just for lukemia and had died there Nuiol an old fashioned after five moaths, despite

Tail It Works'

The patient moves a lever in the mail and a light blinks. He moves another and he gets a prize. The process has done more for schizo-dimentics in the hig Veterans Administration. Hospital at Buttle lireck, Mich., than any standard accountal treatment used there.

Tess new device, an 8-footwith wreen, was rigged up last had by the hospital's chief paychologist, Dr. Stewart G. Armitage. the was struck with the idea while matching a group of hopeless "backschizophrenics shuffling, and dream-like, through their duly routine. All of the patients, Workl War II voterans (average age 34), had spent at least nine sear in mental institutions. Elecmicofficek treatment, insulin shock, assychatherapy, and the new tranappilizers had been tried on each, but with no significant improvement.

Fast these men still used their motor inactions—they walked about the wards, sale their meals in silence, smoked eigasettes Dr. Armitage reasoned: Why not use their motor activities to rouse their interests, bring them back to reality? With the help of psychologists—Dr. Carl Tacova of the University of Michigan and Dr. Clerakl F. King of Michigan State Livrousity—Dr. Armitage constructed to materious apparatus and called it had the Alexandre for multiple differential component apparatus.

Metured: A 30-year-old referso, mute for four years, stood believe the board last week while a therapost asked him to move one handle one of four ways—up or down, right or left. The patient moved the handle in the total direction, a green light appeared the patient had been solved, and as a teward the patient was permitted to pull one of three other levers to release causty, eigarettes, or an outliness picture projected on a screen. The long-ment man selected eigarettes as a researd, and, to the pleased surprise of the therapist, said: "Good morning, Have you a match?"

We designed MUDRA to look like a pinball machine to get the patient's interest. Dr. Armitage explains. "It's a little itube Goldbergish-but it works."

Three times a week for fifteen weeks, swelve of the VA hospital's most hopeless edisconferences have stepped before the vicinition to flip levers and empty slots. After succeeding with the first one-lever recements, and finally to "team games" is which one patient is asked to make a correct move with one knob while another makes a second move. "This remainer makes a second move. "This remainer talking and cooperation," said Dr.



MCDRA: The game that helps schizoids

Armitage. "It brings the men back into the svorle of reality."

A panel of therapists has pronounced nine of the twelve MUDRA-treated schizophrenics "noticeably improved" since the gadget's installation. One man who had refused to leave the ward to take part in hospital activities suddenly became relaxed and quite sociable, and asked to go swimming. Another, who had been "inneachable" for six years, was discharged as cured

Why does MUDRA work? In schizo-phrema the victim suffers a profound sense of personal failure, and, eventually, a total loss of self-respect. "Perhaps the men respond to the MUDRA problems because they have a chance to experience success on their own after long years of fadure," said Dr. Armitage. "More important. I think, the machine shows that the schizophrenic has better control of his faculties than many think." At any rate he can be reached, to some degree, through motor activities."

The next step? To get at the very roots of this most baffling of all mental diseases, Dr. Armitage and his VA associates are planning a long-range MUDRA-schizophrenia study. "Some doctors think

the schizophrenic has a built in sensory defect—that he may not see, hear, feel, taste, or smell things as other people do," the psychologist concluded. "With MUDRA, we hope to prove—or disprove—this idea for good."

Cancer Vaccine?

Several hundred U.S. physicians who skeptically greet any mention of quick-relief serums for treating cancer listened last week is (). Gordon Murray of Toronto described "some astomshing offects in last-stage cancer victums injected with his own brand of borse secum.

So far, Dr. Murray admitted at the annual meeting of the Amorcan Academy of Orthopedic Surgeous, in Chicago, there have been no cures with the serion, derived from blood cultures of horses in jected with human cancers. But at

icast ten terminal breast-cancer patheos, and others with stomach and colon cancers are alive from two to three year after getting their first injections. All, the patients previously had been treated without success, with the standard their apies—surgery, radiation, and driggs from daily injections of Dr. Marray's serum the majority got pain relief, some even were able to go back to work.

Experimental: Dr. Murray's works is based on the theory, now accepted by many cancer experts, that the haman body possesses a natural resistance to cancer. In his experiments, he hopes to determine whether his horse seriou is capable of strengthening the cancer victum's built-in immunity to the cisease if so, the serum might take its place as an immunizing cancer vaccine—the goal of every cancer researcher.

Though the serum's immunization power has not been proved, hundreds of cancer victims who read the Chicago reports were already clamoring for on mediate treatment. To all of them Dr. Murray replied firmly: His tests are experimental, no more cancer patients can be accepted for treatment at his Toronto clinic; the serum is not yet available tor use in other medical centers.

Periscoping Medicine

The theory that excessive salt is a primary cause of high blood pressure is bolistered by a new survey showing that Eskimos and some Northwestern Indian tribes, who sat no salt, have almost no hypertension . . . Victims of hemo, philia have been helped by oral tablets of protease, enzymes that split the body proteins and help to strengthen the poor blood-clotting mechanism . Cholesterol, suspected by some researchers to be a cause of heart disease, now is also believed to hasten cancer growth. Studies show that as squired colls musitiply, the body produces increasing amounts of the lat-like substitute.

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set at minus 10 cm. of water. Air expanded, the base of the needle is to withdrawn slowly to prevent pa- raped to the chest wan, and negaresysms of coughing time to true pressure is maintained with cheal and mediastinal shift and pumps for twenty-four hours after reexpansion of lung parenchyma.

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Spontaneous Cancer Regression

Rarely, a malignant tumor disappears or recedes with inadequate treatment or none at all. Of more than 1,000 instances of such sportaneous regression reported in the literature, only 90 are adequately documented and histoorically confirmed.

Over half of proved spontaneous regressions have been of neuroblastoma, malignant melanoma, chorioepitheliama, and cancer of the bladder Cancers of the breast, uterus, and gastrointestimil tract disappear less often despite much more frequent occurrence.

Of metastatic lesions, documented only by roentgen evidence, choriocpitheticara, malignant melanoma, osteopenic sarcoma, and hypernephroma regress most frequently. Prolonged arrest of provets occurs most commonly in carcinoma of the breast, thyroid and prostate. A prolonged latent period between primary tumor and metastasis of the currence has been noted particularly with breast canons

and hypernephroma.

Several theories have been advanced to explain spontaneous regression. Hormonal attentions produced by the cancer itself may be responsible. Other tumors may be abmormally sensitive to radiation or chemotherapy and subside after doses which are usually inadequate. Alleric or immune reactions have been suggested as destructive of supply to the cancerous area; supposedly incomplete; surgical renamination was in reality complete; inadvertent removal of the purchagenic agent, for example, by diversion of urine; and an orrect histologic diagnosis are other possible factors.

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progressively in the face of weak minurity in the recipients.

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We have compared the rates of growth of a hyperdiploid which are its and like tetraploid subline. These two lines are genetically comparable, since the latter line was derived from the former by immunoselection, and both of them lawe been propagated in the same stock of mice. To our surprise, we have found that the rate of growth for the two cell populations is exactly toe same until a limiting mass is reached. This occurs wooder for the tetraploid subline because of the larger individual volume. Of its cells. The lethal mass of turnor protoplasm per mode that is synthesized by the tetraploid and the diploid is nearly the same but the total number of cells per mouse is loughly twice as large for the hyperdiploid population, which is in keeping with the master individual cell volumes. This is interesting from the point of view of mass regulation by a host strain. Our observation has been confirmed by these investigators, in their extensive growth that, for various diploid and polyploid tumors, have found to correlation whatever between the rate of growth and insurance and insurance found to correlation whatever between the rate of growth and insurance and insurance found to correlation whatever between the rate of growth and insurance and insurance found to correlation whatever between the rate of growth and insurance and insurance and insurance found to correlation whatever between the rate of growth and insurance and in

ROBERT R. CITRON (Stockton, Califat hily online is a reduced to Jergue Syverton, Van Potier, and Therdote Hailschke. I should like to quote Syverton's remarks anent the myriad of mixed antigens in cancer cells and Potter's observation that the function of impoprotein is in urgen; need of creater study. Hailschka's pry interesting falcophotographs dealing with the irregularities of surface between norms will and cancer cells may also lend support to the apparent against three of lipid and importation in this area of specifical research. All of the losegoing makes one wish to call attention to some work in this field that has been tune for a mumber of years concerning gainer lipid as antigen; that is as an antigent was too derived from cancer taxue by means of fat solvent as, for example, by ethyl ether extraction techniques. This was reported recently at the meeting of the American Association the Advancement of Science in New York. N.Y. I wish to emphasize this appears as means of correlating the various ramifications that point make common one minator present in cancer timues that has specific antigenic activity, in contract to components of normal tissue that have not. It does not appear that pro in some holds the solution to this problem, and I mention the concept of lipids and experimentation with them as means of throwing light on the fontroversial situat. That has existed heretofore in this difficult field of cancer manuscology.

Legerce

Control of the contro